

FIG 1

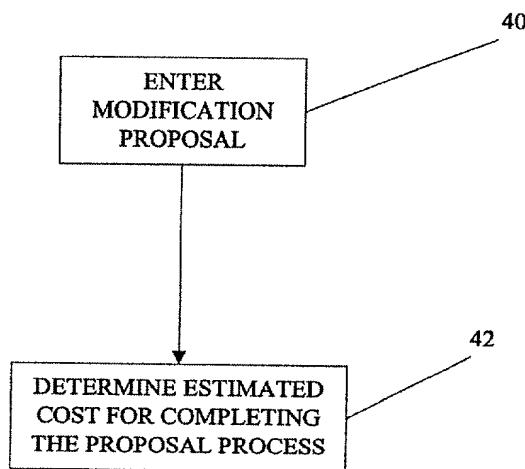


FIG 2

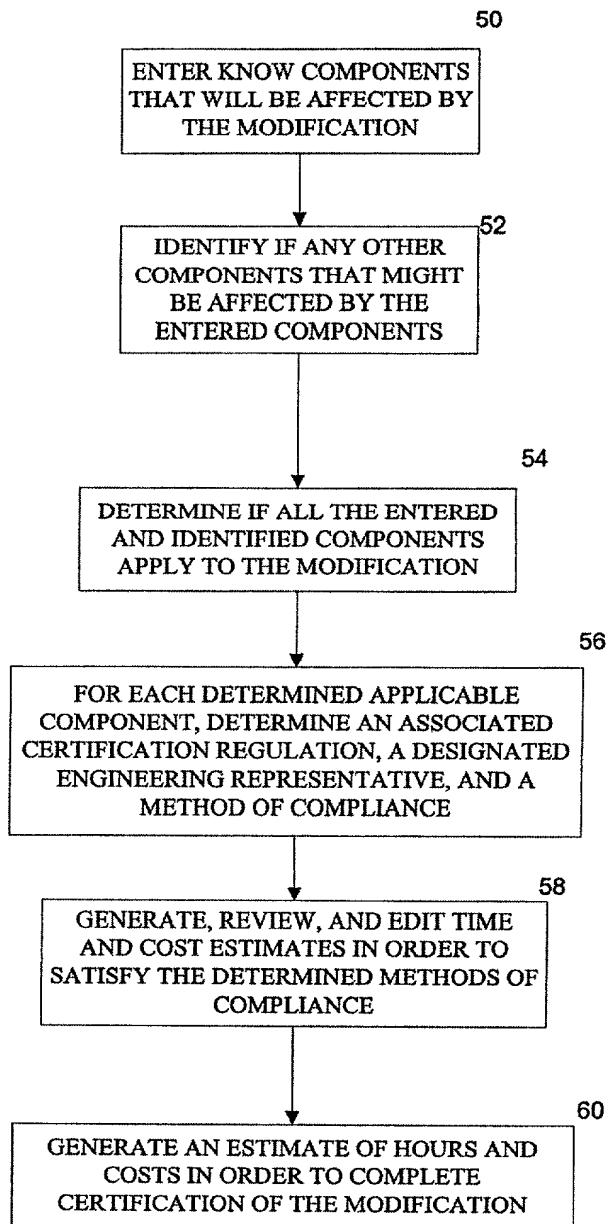


FIG. 3

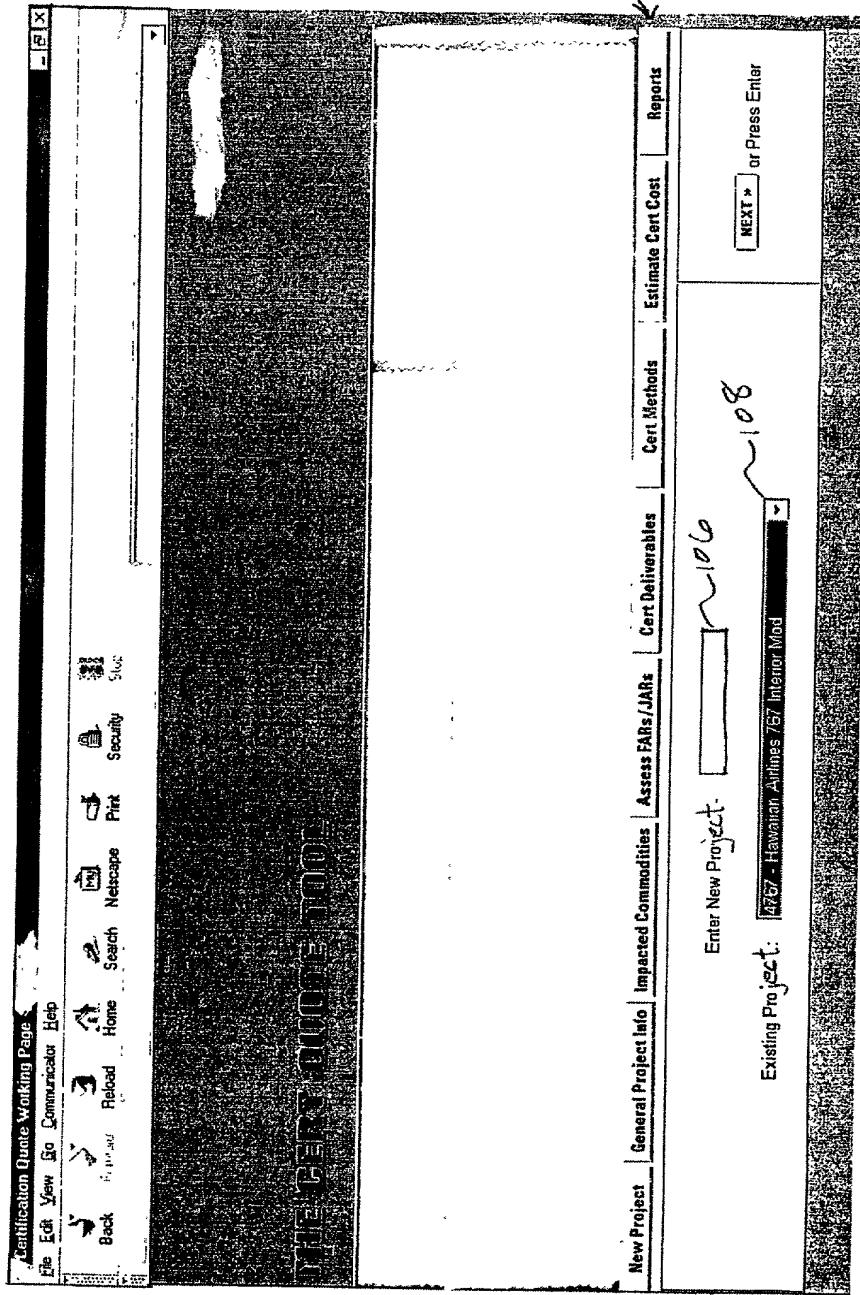


FIG. 4

Certification Quote		File		Edit		View		Go		Communicator		Help																							
<input type="button" value="New Project"/>	<input type="button" value="General Project Info"/>	<input type="button" value="Back"/>	<input type="button" value="Forward"/>	<input type="button" value="Home"/>	<input type="button" value="Relisted"/>	<input type="button" value="Search"/>	<input type="button" value="Print"/>	<input type="button" value="Message"/>	<input type="button" value="Fax"/>	<input type="button" value="Security"/>	<input type="button" value="Print"/>	<input type="button" value="Save &amp; Printead"/>																							
THE CERT QUOTE 1000		Cert Deliverables		Assess FARs/JARs		Impacted Commodities		General Project Info		New Project		Cert Methods																							
												Estimate Cert Cost																							
												Reports																							
<p><b>GENERAL PROJECT INFORMATION for Project -4767</b></p> <p>Define general project information including known affected commodities and specific airplane models to be modified.</p> <table border="1"> <tr> <td>Name: <input type="text" value="Last Cruz"/></td> <td>First <input type="text" value="Lisa"/></td> <td>MI <input type="text" value="1"/></td> </tr> <tr> <td>Proposal Description: <input type="text" value="Hawaiian Airlines 767 Interior Mod"/></td> <td colspan="3">Status: <input type="text" value="In Work"/></td> </tr> <tr> <td>Start Date: <input type="text" value="4/15/01"/></td> <td>End Date: <input type="text" value="4/15/02"/></td> <td colspan="3">(Valid format: MM/DD/YYYY)</td> </tr> <tr> <td colspan="5">Model Type(s):</td> </tr> <tr> <td colspan="5"> <input type="checkbox"/> 737-100  <input type="checkbox"/> 737-200  <input type="checkbox"/> 737-300  <input type="checkbox"/> 737-400  <input type="checkbox"/> 737-500  <input type="checkbox"/> 737-600  <input type="checkbox"/> 737-700  <input type="checkbox"/> 737-800  <input type="checkbox"/> 747-100  <input type="checkbox"/> 747-100B  <input type="checkbox"/> 747-100B SUD  <input type="checkbox"/> 747-200B  <input type="checkbox"/> 747-200C  <input type="checkbox"/> 747-200F  <input type="checkbox"/> 747-300         </td> </tr> </table>														Name: <input type="text" value="Last Cruz"/>	First <input type="text" value="Lisa"/>	MI <input type="text" value="1"/>	Proposal Description: <input type="text" value="Hawaiian Airlines 767 Interior Mod"/>	Status: <input type="text" value="In Work"/>			Start Date: <input type="text" value="4/15/01"/>	End Date: <input type="text" value="4/15/02"/>	(Valid format: MM/DD/YYYY)			Model Type(s):					<input type="checkbox"/> 737-100 <input type="checkbox"/> 737-200 <input type="checkbox"/> 737-300 <input type="checkbox"/> 737-400 <input type="checkbox"/> 737-500 <input type="checkbox"/> 737-600 <input type="checkbox"/> 737-700 <input type="checkbox"/> 737-800 <input type="checkbox"/> 747-100 <input type="checkbox"/> 747-100B <input type="checkbox"/> 747-100B SUD <input type="checkbox"/> 747-200B <input type="checkbox"/> 747-200C <input type="checkbox"/> 747-200F <input type="checkbox"/> 747-300				
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FIG. 5A

FIG. 5B.

Price et al  
Attorney Docket No. BOEI-1-1007  
METHOD FOR ACCELERATED RETROFIT CERTIFICATION  
Filed: October 11, 2001  
Express Mail No EL476256024US  
Sheet 5 of 15  
Black Lowe & Graham, PLLC  
(206) 381-3300

**GENERAL PROJECT INFORMATION for Project 4767**  
Define general project information including known affected commodities and specific airplane models to be modified.

Name: Last  First  MI  Status:

Proposal Description:

Start Date:  End Date:  (Valid format MM/DD/YY)

Model Type(s):

**Commodity List**

Audio reproducers, multiplexer, PRAM  
Control units, monitors, TV, PIS, Projectors, Video Ent. Player  
Crew Rest  
ECS  
Electrical/Electronic  
Emergency equipment  
Escape systems  
Flight Deck  
Galleys & BFE Monuments  
General and emergency lighting  
IFE Provisions  
In-seat phones  
Insulation  
Landscape cameras  
Lavatories  
Linings, ceilings, air grills, floor

**THE RETROFIT LINE**

File Edit View Go Communicator Help  
Back Form Adj Related Home Search Netscape Print Security Sign Off

New Project General Project Info Impacted Commodities Assess FARs/JARs Cert Deliverables Cert Methods Estimate Cert Cost Reports

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Certification Quote Working Page																					
File	Edit																				
View	Go Communicator																				
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New Project																					
General Project Info																					
Impacted Commodities	Assess FARs / JARs																				
Cert Deliverables	Cert Methods																				
Estimate Cert Cost	Reports																				
Impacting for project -4767																					
Potential Impact																					
<table border="1"> <tr> <td>Wall phones, cabin telephone units, bearer systems, fax</td> <td>No Impact</td> </tr> <tr> <td>Audio reproducers, multiplexer, F</td> <td></td> </tr> <tr> <td>Control units, monitors, TV, PFIS</td> <td></td> </tr> <tr> <td>Crew Rest</td> <td></td> </tr> <tr> <td>Escape systems</td> <td>150</td> </tr> <tr> <td>Flight Deck</td> <td></td> </tr> <tr> <td>IFE Provisions</td> <td></td> </tr> <tr> <td>In-seat phones</td> <td></td> </tr> <tr> <td>Insulation</td> <td></td> </tr> <tr> <td>Landscape cameras</td> <td></td> </tr> </table>		Wall phones, cabin telephone units, bearer systems, fax	No Impact	Audio reproducers, multiplexer, F		Control units, monitors, TV, PFIS		Crew Rest		Escape systems	150	Flight Deck		IFE Provisions		In-seat phones		Insulation		Landscape cameras	
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Oxygen systems																					
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<input type="button" value="Attached comment"/>																					
<b>Impacted Commodities -</b> A modification to one commodity will often impact certification requirements of adjacent commodities.																					
1. Move commodities from 'potential impact' to either 'impacting' or 'no impact'. 2. For each impacted commodity, use the lower screen as a guide of potential certification impacts on other commodities. 3. Use the comment function to list the issues and concerns for specific commodities.																					
<b>Likely Impact</b>																					
<table border="1"> <tr> <td>Crew Rest</td> <td>Possible Impact</td> </tr> <tr> <td>Galleys &amp; BFE Monuments</td> <td></td> </tr> <tr> <td>Lavatories</td> <td></td> </tr> <tr> <td>PSS, cabin lighting, monitor &amp; controls</td> <td></td> </tr> <tr> <td>Seats - Attendant</td> <td></td> </tr> <tr> <td>Seats - Passenger</td> <td></td> </tr> <tr> <td>Linings, ceiling, air grills, floor</td> <td></td> </tr> </table>		Crew Rest	Possible Impact	Galleys & BFE Monuments		Lavatories		PSS, cabin lighting, monitor & controls		Seats - Attendant		Seats - Passenger		Linings, ceiling, air grills, floor							
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<input type="button" value="Helper Questions"/>																					

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F16.6

New Project	General Project Info	Impacted Commodities	Assess FARs/JARs	Cert Deliverables	Cert Methods	Estimate Cert Cost	Reports
<b>Potential Impact</b>							
<input checked="" type="checkbox"/> Wall phones, cabin telephone units, beater systems, fax							
<input checked="" type="checkbox"/> Help Questions - Netcape							
<input checked="" type="checkbox"/> Relationships							
Physical/Spatial 1. Does this commodity affect the other? 2. Is it in, on, next to, or affected by attachment? 3. Does it affect crew interface?							
Functional Does it affect another functional discipline? Safety Does it affect the crashworthiness of interior arrangement?							
<b>Impact of the Impact</b> a guide of potential certification impacts on other commodities.							
<b>Likely Impact</b>							
<input checked="" type="checkbox"/> Crew Rest Galleries & BFE Monuments Lavatories PSS, cabin lighting, monitor & controls Seats - Attendant Seats - Passenger							
Audio reproducers, multiplexer, PRAM Control units, monitors, TV, PFIS, Projectors, Video Ent. Player General and emergency lighting IFE Provisions Insulation Linings, ceilings, air grille, floor							
Helper Questions							

F 16.7.

16f

FARAR Detail Screen									
File	Edit	View	Go	Communicator	Help	Home	Search	NetScope	Print
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <span style="font-size: 2em; color: #0070C0;">1</span> <span style="font-size: 2em; color: #0070C0;">2</span> <span style="font-size: 2em; color: #0070C0;">3</span> <span style="font-size: 2em; color: #0070C0;">4</span> <span style="font-size: 2em; color: #0070C0;">5</span> <span style="font-size: 2em; color: #0070C0;">6</span> <span style="font-size: 2em; color: #0070C0;">7</span> <span style="font-size: 2em; color: #0070C0;">8</span> <span style="font-size: 2em; color: #0070C0;">9</span> <span style="font-size: 2em; color: #0070C0;">10</span> </div>									
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FIG. 11.

Not to be  
done

FIG. 12

Certification Quote Working Page

File Edit View Go Communication Help

Back Forward Reload Home Search Netscape Print Security \$100

THE CERTIFICATE LINE

Project - 1767

Service Bulletin

Certification Deliverables are...

CAA familiarization meeting and follow-up technical meetings

	Estimate	Tracability
1	1 mds x 0 mhr x 1 people	
3	visits x 16 mhr x 1 people	
5	trips x 32 mhr x 1 people	

Certification review with customer, trips & visits

	Estimate	Tracability
1	plan x 25 pages x 8 hr/po	MOA, Paragraph V.B.2.

Develop certification strategy/plan and submit to certification group

	Estimate	Tracability
20	8110s x 4 mhr	
6	# cert x 20 mhr	

Each discipline's DER requires a Service Bulletin 8110-3 signoff

	Estimate	Tracability
2	IPS x 8 mhr	

Issue Paper (IP) response for controversial issues

	Estimate	Tracability
1	DER x 10 mhr	MOA paragraph V.B.2.

Only the Interior Arrangement DER or the prime DERs require 8110-3 signoff for the Service Bulletin

Remote Certification

	Estimate	Tracability
2	trips x 80 mhr x 1 people	

Requires Program Letter of Definition input to certification group, possible "FAA Project"

	Estimate	Tracability
0	100 x 0 mhr	FAA 21.19, 21.21, 21.93, 21.07

Total Hours: 824

Grand Total: 0

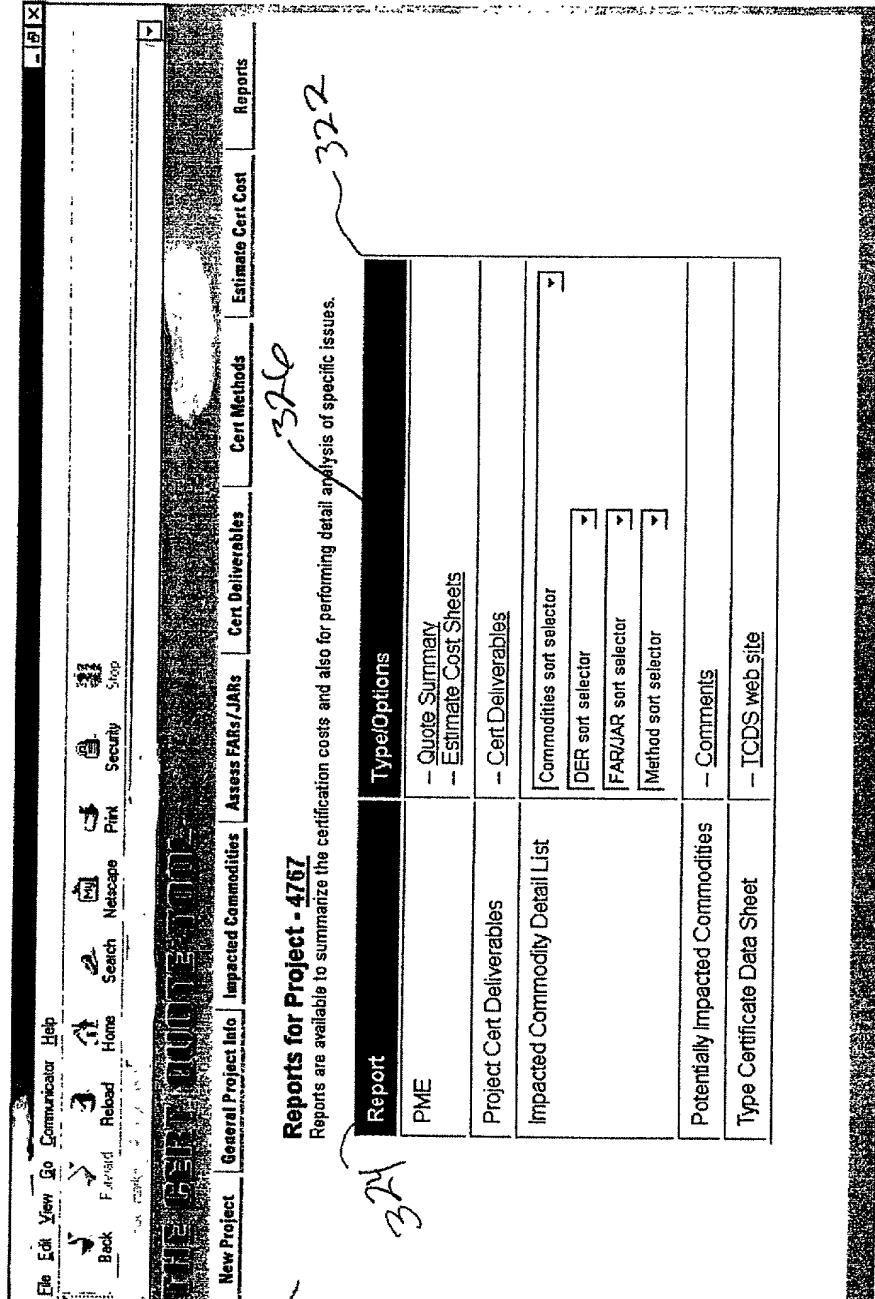
Fig. 13

Price et al  
Attorney Docket No. BOEI-1-1007  
METHOD FOR ACCELERATED RETROFIT CERTIFICATION  
Filed October 11, 2001  
Express Mail No. EL476256024US  
Sheet 13 of 15  
Black Lowe & Graham, PLLC  
(206) 381-3300

## Supplemental Type Certification

Certification Deliverables are...	Estimate	Traceability
CAA familiarization meeting and follow-up technical meetings	<input type="checkbox"/> mtgs x <input type="checkbox"/> mhr <input checked="" type="checkbox"/> 1 people	
Certification review with customer, trips & visits	<input type="checkbox"/> visits x <input type="checkbox"/> mhr <input checked="" type="checkbox"/> 1 people	
trips x <input type="checkbox"/> mhr <input checked="" type="checkbox"/> 1 people		
Develop certification strategy/plan and submit to certification group	<input type="checkbox"/> plan x <input type="checkbox"/> pages x <input checked="" type="checkbox"/> 8 mhrs	FAA order 8110.4, paragraph 6
Each discipline's DER requires a STC 8110.3 signoff	<input type="checkbox"/> 8110.3 x <input type="checkbox"/> mhr	
	<input type="checkbox"/> #cav x <input type="checkbox"/> mhr	
Engineer participation in "airplane survey" to validate initial airworthiness configuration	<input checked="" type="checkbox"/> trip x <input type="checkbox"/> mhr <input checked="" type="checkbox"/> 1 people	
Issue Paper (IP) response for controversial issues	<input type="checkbox"/> IP's x <input type="checkbox"/> mhr	
Remote Certification	<input type="checkbox"/> IP's x <input type="checkbox"/> mhr <input checked="" type="checkbox"/> 1 people	
Requires Notification Letter input to certification group proposing 'DER Project'	<input type="checkbox"/> Input x <input type="checkbox"/> mhr	FAA 810.21.97, 21.113
Requires Notification Letter input to certification group, possible 'FAA Project'	<input type="checkbox"/> Input x <input type="checkbox"/> mhr	FAA 810.21.97, 21.113, 21.115
Total Hours:	<input type="checkbox"/> 0	
Grand Total:	<input type="checkbox"/> 0	

FIG. 14.



## Certification Quote Summary

Date: 8/6/2001

Proposal #: 4767 Status: In Work Start Date: 4/15/01

Estimator: Cruz, Lisa A End Date: 4/15/02

Proposal Description: Hawaiian Airlines 767 Interior Mod

Change (Major/Minor): Major

Airplane Specifics: 767-300

Certification Approach(s): Service Bulletin, Supplemental Type Certificate, Foreign Certification

**Total (Cost) Man Hours\*: 824      Total Foreign regulatory fees: \$12000**

DER Types: Cargo Systems, Comm/Ant, ECS, Electrical, EMC/EMI, Escape Sys, Fire Contain, Flammability, Flight Manual, Interiors, Materials, Mechanisms, Oxygen Sys, PA/Entertain, Software, Stress, Structures, Water/Waste, Weights & Balance

FIG. 15.